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TO THE ASSISTANT COMMISSIONER FOR PATENTS:

Transmitted herewith for filing under 37 C.F.R. § 1.53(b) by Express Mail is the incomplete patent application of:

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entitled SYSTEM AND METHOD FOR MANAGING AND EVALUATING NETWORK COMMODITIES PURCHASING, executed on June 28, 2000.

- X 1. An application consisting of 26 pages of specification and claims and 12 sheets of informal drawings is attached.
- X 2. A Declaration and Power of Attorney is not attached. Please file this application in the full name of the inventor listed above.
- X 3. A filing date in accordance with 37 C.F.R. § 1.10 is requested. The Express Mail Certificate appears below.

COMPUTATION OF FEE

	Number Filed		Number Extra		Rate		Total
Basic Fee					345.00		\$345.00
Total Claims	36 - 20	=	16	x	9.00	=	\$144.00
Independent Claims	3 - 3	=	0	x	39.00	=	0
Multiple Dependent Claims	-0-		---		130.00		
TOTAL							\$489.00

- X 4. No fee is enclosed.

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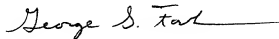
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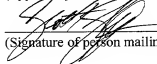
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SYSTEM AND METHOD FOR MANAGING AND EVALUATING NETWORK COMMODITIES PURCHASING

Field of the Invention

This invention generally relates to electronic commerce software applications
5 and, more particularly, to a method and system relating to commodities purchasing
over a network of distributed computing devices.

Background of the Invention

Commodity items such as lumber, agricultural products, metals, and
livestock/meat are usually traded in the open market between a number of buyers and
10 sellers. The sales transactions of most commodity items involve a number of
parameters. For instance, in the trade of commodity lumber, a buyer usually orders
materials by specifying parameters such as lumber species, grade, size (i.e. 2x4,
2x10, etc.) and length, as well as the "tally" or mix of units of various lengths within
shipment, method of transportation (i.e., rail or truck), shipping terms (i.e., FOB or
15 delivered), and desired date of receipt, with each parameter influencing the value of
the commodity purchase. Given the multiple possible combinations of factors, a
commodity buyer often finds it difficult to objectively compare similar but unequal
offerings among competing vendors.

For example, in a case where a lumber buyer desires to order a railcar load of
20 spruce (SPF) 2x4's of #2 & Better grade, the buyer would query vendors offering
matching specie and grade carloads seeking the best match for the buyer's need or
tally preference at the lowest market price. Lumber carloads are quoted at a price per
thousand board feet for all material on the railcar. In a market where the shipping

parameters are not identical, it is very difficult for buyers to determine the comparative value of unequal offerings.

Typically a lumber buyer will find multiple vendors each having different offerings available. For example, a railcar of SPF 2x4's may be quoted at rate of \$300 / MBF (thousand board feet) by multiple vendors. Even though MBF price is equal, one vendor's carload may represent significantly greater marketplace value because it contains the more desirable lengths of 2x4's, such as builder preferred sixteen foot 2x4's. When the offering price varies in addition to the mix of lengths, it becomes increasingly difficult to compare quotes from various vendors. Further, because construction projects often require long lead times, the lumber product may need to be priced now, but not delivered until a time in the future. Alternately, another specie of lumber (i.e. southern pine) may represent an acceptable substitute.

Therefore, from the foregoing, there is a need for a method and system that allows buyers to evaluate the price of commodity offerings possessing varying shipping parameters.

Summary of the Invention

The present invention provides a system and method for managing and evaluating commodities purchasing over a network of distributed computing devices. In one embodiment, the method allows a plurality of buyers to generate one request for quote and, in response to the request for quote, receive a quote from plurality of vendors. The system of the present invention provides a price normalization routine that allows buyers to evaluate and compare a normalized price for commodity products having different evaluation parameters. In an arrangement comprising a plurality of computers connected to a network, said plurality of computers including: at least one server; at least one buyer client computer; and a plurality of seller client computers, the method for providing commodities exchange services first provides a web-based browsable display describing at least one commodities exchange service. The system then receives at least one request for quote (RFQ) from the buyer. Responsive to the RFQ, the system then receives at least one quote from different sellers, where each quote may have a different price and quantity listed. The system then normalizes the prices received from the different quotes by applying a metric factor to the quote to produce an adjusted price. The adjusted price then allows the buyer to readily compare the prices of a number of commodity items having inherently different values to an objective measure. In addition, the system tracks all

transactional activity and provides a cross compilation tool for evaluation and analysis.

Brief Description of the Drawings

5 The foregoing aspects and many of the attendant advantages of this invention will become more readily appreciated as the same become better understood by reference to the following detailed description, when taken in conjunction with the accompanying drawings, wherein:

FIGURE 1 is a block diagram of a prior art representative portion of the Internet.

10 FIGURE 2 is a pictorial diagram of a system of devices connected to the Internet, which depict the travel route of data in accordance with the present invention.

FIGURE 3 is a block diagram of the several components of the buyer's computer shown in FIGURE 2 that is used to request information on a particular route in accordance with the present invention.

15 FIGURE 4 is a block diagram of the several components of an information server shown in FIGURE 2 that is used to supply information on a particular route in accordance with the present invention.

20 FIGURE 5 is a flow diagram illustrating the logic of a routine used by the information server to receive and process the buyer's actions.

FIGURES 6A-6B are flow diagrams illustrating another embodiment of the logic used by the information server to receive and process the quotes and quote requests of both buyers and vendors.

25 FIGURE 7 is a flow diagram illustrating another embodiment of the logic used by the information server to execute the process of a catalog purchase.

FIGURES 8A-8D are images of windows produced by a Web browser application installed on a client computer accessing a server illustrating one embodiment of the present invention.

30 FIGURE 9 is a flow diagram illustrating one embodiment of the normalization process in accordance with the present invention.

Detailed Description of the Preferred Embodiment

The term "Internet" refers to the collection of networks and routers that use the Internet Protocol (IP) to communicate with one another. A representative section of the Internet 100 as known in the prior art is shown in FIGURE 1 in which a plurality of local area networks (LANs) 120 and a wide area network (WAN) 110 are

interconnected by routers 125. The routers 125 are generally special purpose computers used to interface one LAN or WAN to another. Communication links within the LANs may be twisted wire pair, or coaxial cable, while communication links between networks may utilize 56 Kbps analog telephone lines, or 1 Mbps digital T-1 lines and/or 45 Mbps T-3 lines. Further computers and other related electronic devices can be remotely connected to either the LANs 120 or the WAN 110 via a modem and temporary telephone link. Such computers and electronic devices 130 are shown in FIGURE 1 as connected to one of the LANs 120 via dotted lines. It will be appreciated that the Internet comprises a vast number of such interconnected networks, computers, and routers and that only a small, representative section of the Internet 100 is shown in FIGURE 1.

The World Wide Web (WWW), on the other hand, is vast collection of interconnected, electronically stored information located on servers connected throughout the Internet 100. Many companies are now providing services and access to their content over the Internet 100 using the WWW. In accordance with the present invention and as shown in FIGURE 2, there may be a plurality of buyers operating a plurality of client computing devices 235. FIGURE 2 generally shows a system 200 of computers and devices to which an information server 230 is connected and to which the buyers' computers 235 are also connected. Also connected to the Internet 100, is a plurality of computing devices 250 associated with a plurality of sellers. The system 200 also includes a communications program, referred to as CEA, which is used on seller's computing devices 250 to create a communication means between the seller's backend office software and the server application.

The buyers of a market commodity may, through their computers 235, request information about a plurality of items or order over the Internet 100 via a Web browser installed on the buyers' computers. Responsive to such requests, the information server 230, also referred to as a server 230, may combine the first buyer's information with information from other buyers on other computing devices 235. The server 230 then transmits the combined buyer data to the respective computing devices 250 associated with the plurality of buyers. Details of this process are described in more detail below in association with FIGURES 5-7.

Those of ordinary skill in the art will appreciate that in other embodiments of the present invention, the capabilities of the server 230 and/or the client computing devices 235 and 250 may all be embodied in the other configurations. Consequently,

it would be appreciated that in these embodiments, the server 230 could be located on any computing device associated with the buyer or seller's computing devices. Additionally, those of ordinary skill in the art will recognize that while only four buyer computing devices 235, four seller computing devices 250, and one server 230 are depicted in FIGURE 2, numerous configurations involving a vast number of buyer and seller computing devices and a plurality of servers 230, equipped with the hardware and software components described below, may be connected to the Internet 100.

FIGURE 3 depicts several of the key components of the buyer's client computing device 235. As known in the art, client computing devices 235 are also referred to as "clients" or "devices," and client computing devices 235 also include other devices such as palm computing devices, cellular telephones, or other like forms of electronics. A client computing device can also be the same computing device as the server 230. An "agent" can be a person, server, or a client computing device 235 having software configured to assist the buyer in making purchasing decisions based on one or more buyer determined parameters. Those of ordinary skill in the art will appreciate that the buyers' computer 235 in actual practice will include many more components than those shown in FIGURE 3. However, it is not necessary that all of these generally conventional components be shown in order to disclose an illustrative embodiment for practicing the present invention. As shown in FIGURE 3, the buyer's computer includes a network interface 315 for connecting to the Internet 100. Those of ordinary skill in the art will appreciate that the network interface 315 includes the necessary circuitry for such a connection, and is also constructed for use with the TCP/IP protocol.

The buyers' computer 235 also includes a processing unit 305, a display 310, and a memory 300 all interconnected along with the network interface 315 via a bus 360. The memory 300 generally comprises a random access memory (RAM), a read-only memory (ROM) and a permanent mass storage device, such as a disk drive. The memory 300 stores the program code necessary for requesting and/or depicting a desired route over the Internet 100 in accordance with the present invention. More specifically, the memory 300 stores a Web browser 330, such as Netscape's NAVIGATOR or Microsoft's INTERNET EXPLORER browsers, used in accordance with the present invention for depicting a desired route over the Internet 100. In addition, memory 300 also stores an operating system 320 and a communications application 325. It will be appreciated that these software components may be stored

on a computer-readable medium and loaded into memory 300 of the buyers' computer 235 using a drive mechanism associated with the computer-readable medium, such as a floppy, tape or CD-ROM drive.

As will be described in more detail below, the user interface which allows products to be ordered by the buyers are supplied by a remote server, i.e., the information server 230 located elsewhere on the Internet as illustrated in FIGURE 2. FIGURE 4 depicts several of the key components of the information server 230. Those of ordinary skill in the art will appreciate that the information server 230 includes many more components than shown in FIGURE 4. However, it is not necessary that all of these generally conventional components be shown in order to disclose an illustrative embodiment for practicing the present invention. As shown in FIGURE 4, the information server 230 is connected to the Internet 100 via a network interface 410. Those of ordinary skill in the art will appreciate that the network interface 410 includes the necessary circuitry for connecting the information server 230 to the Internet 100, and is constructed for use with the TCP/IP protocol.

The information server 230 also includes a processing unit 415, a display 440, and a mass memory 450 all interconnected along with the network interface 410 via a bus 460. The mass memory 450 generally comprises a random access memory (RAM), read-only memory (ROM), and a permanent mass storage device, such as a hard disk drive, tape drive, optical drive, floppy disk drive, or combination thereof. The mass memory 450 stores the program code and data necessary for incident and route analysis as well as supplying the results of that analysis to consumers in accordance with the present invention. More specifically, the mass memory 450 stores a metrics application 425 formed in accordance with the present invention for managing the purchase forums of commodities products. In addition, mass memory 450 stores a database 445 of buyer information continuously logged by the information server 230 for statistical market analysis. It will be appreciated by those of ordinary skill in the art that the database 445 of product and buyer information may also be stored on other servers or storage devices connected to the either the information server 230 or the Internet 100. Finally, mass memory 450 stores Web server software 430 for handling requests for stored information received via the Internet 100 and the WWW, and an operating system 420. It will be appreciated that the aforementioned software components may be stored on a computer-readable medium and loaded into mass memory 450 of the information server 230 using a drive mechanism associated with the computer-readable medium, such as floppy,

tape or CD-ROM drive. In addition, the data stored in the mass memory 450 and other memory can be "exposed" to other computers or persons for purposes of communicating data. Thus, "exposing" data from a computing device could mean transmitting data to another device or person, transferring XML data packets, transferring data within the same computer, or other like forms of data communications.

In accordance with one embodiment of the present invention, FIGURE 5 is a flow chart illustrating the logic implemented for the creation of a Request for Quote (RFQ) by a singular buyer or a pool of buyers. In process of FIGURE 5, also referred to as the pooling process 500, a buyer or a pool of buyers generate an RFQ which is displayed or transmitted to a plurality of sellers. Responsive to receiving the RFQ, the sellers then send quotes to the buyers.

In summary, the creation of the RFQ consists of at least one buyer initially entering general user identification information to initiate the process. The buyer would then define a Line Item on a Web page displaying an RFQ form. The Line Item is defined per industry specification and units of product are grouped as a "tally" per industry practice. The pooling process 500 allows buyers to combine RFQ Line Items with other buyers with like needs. In one embodiment, the pool buy feature is created by a graphical user interface where the RFQ Line Items from a plurality of buyers is displayed on a Web page to one of the pool buyers, referred to as the pool administrator. The server 230 also provides a Web-based feature allowing the pool administrator to selectively add each RFQ Line Item to one combined RFQ. The combined RFQ is then sent to at least one vendor or seller. This feature provides a forum for pooling the orders of many buyers, which allows individual entities or divisions of larger companies to advantageously bid for larger orders, thus providing them with more bidding power and the possibility of gaining a lower price.

The pooling process 500 begins in a step 501 where a buyer initiates the process by providing buyer purchase data. In step 501, the buyer accesses a Web page transmitted from the server 230 configured to receive the buyer purchase data, also referred to as the product specification data set or the Line Item data. One exemplary Web page for the logic of step 501 is depicted in FIGURE 8A. As shown in FIGURE 8A, the buyer enters the Line Item data specifications in the fields of the Web page. The Line Item data consists of lumber species and grade 803, number of pieces per unit 804, quantities of the various units comprising the preferred assortment in the tally 805A-E, delivery method 806, delivery date 807, delivery

location 808, and the overall quantity 809. In one embodiment, the buyer must define the delivery date as either contemporaneous "on-or-before" delivery date, or specify a delivery date in the future for a "Forward Price" RFQ. In addition, the buyer selects a metric or multiple metrics in a field 810 per RFQ Line Item (tally).

- 5 As described in more detail below, the metric provides pricing data that is used as a reference point for the buyer to compare the various quotes returned from the sellers. The buyer RFQ Line Item data is then stored in the memory of the server 230.

Returning to FIGURE 5, at a next step 503, the server 230 determines if the buyer is going to participate in a pool buy. In the process of decision block 503, the
10 server 230 provides an option in a Web page that allows the buyer to post their Line Item data to a vendor or post their Line Item data to a buyer pool. The window illustrated in FIGURE 8A is one exemplary Web page illustrating these options for a buyer. As shown in FIGURE 8A, the links "Post Buyer Pool" 812 and "Post to Vendors" 814 are provided on the RFQ Web page.

- 15 At a step 503, if the buyer does not elect to participate in a pool buy, the process continues to a step 513 where the server 230 generates a request for a quote (RFQ) from the buyer's Line Item data. A detailed description of how the server 230 generates a request for a quote (RFQ) is summarized below and referred to as the purchase order process 600A depicted in FIGURE 6A.

- 20 Alternatively at the decision block 503, if the buyer elects to participate in a pool buy, the process continues to a step 505 where the system notifies other buyers logged into the server 230 that an RFQ is available in a pool, allowing other buyers to add additional Line Items (tallies) to the RFQ. In this part of the process, the Line Items from each buyer are received by and stored in the server memory. The Line
25 Items provided by each buyer in the pool are received by the server 230 using the same process as described above with reference to block 501 and the Web page of FIGURE 8A. All of the Line Items stored on the server 230 are then displayed to a pool administrator via a Web page or an email message. In one embodiment, the pool administrator is one of the buyers in a pool, where the pool administrator has the capability to select all of the Line Item data to generate a combined RFQ. The server
30 230 provides the pool administrator with this capability by the use of any Web-based communicative device, such as email or HTML forms. As part of the process, as shown in steps 507 and 509, the pool may be left open for a predetermined period of time to allow additional buyers to add purchase data to the current RFQ.

At a decision block 509, the server 230 determines if the pool administrator has closed the pool. The logic of this step 509 is executed when the server 230 receives the combined RFQ data from the pool administrator. The pool administrator can send the combined RFQ data to the server 230 via an HTML form or by other electronic messaging means such as email or URL strings. Once the server 230 has determined that the pool is closed, the process continues to block 510 where the Line Items from each buyer (the combined RFQ) is sent to all of the buyers in the pool. The process then continues to the step 513 where the server 230 sends the combined RFQ to the vendors or sellers.

Referring now to FIGURE 6A, one embodiment of the purchase-negotiation process 600 is disclosed. The purchase-negotiation process 600 is also referred to as an solicited offer process or the market purchase process. In summary, the purchase-negotiation process 600 allows at least one buyer to submit an RFQ and then view quotes from a plurality of vendors and purchase items from selected vendor(s). The logic of FIGURE 6A provides buyers with a forum that automatically manages, collects and normalizes the price of desired commodity items. The purchase-negotiation process 600 calculates a normalized price data set that is based on a predefined metric(s). The calculation of the normalized price data set in combination with the format of the Web pages described herein create an integrated forum where quotes for a plurality of inherently dissimilar products can be easily obtained and compared.

The purchase-negotiation process 600 begins at a step 601 where the RFQ, as generated by one buyer or a pool of buyers in the process depicted in FIGURE 5, is sent to a plurality of computing devices 250 associated with a plurality of sellers or vendors. The vendors receive the RFQ via a web page transmitted by the server 230. In one embodiment, the vendors receive an email message having a hypertext link to the RFQ Web page to provide notice the vendor. Responsive to the information in the buyers' RFQ, the process then continues to a step 603 where at least one vendor sends their quote information to the server 230.

In the process of step 603, the vendors respond to the RFQ by sending their price quote to the server 230 for display via a Web page to the buyer or buyer pool. Generally described, the vendors send an HTML form or an email message with a price and description of the order. The description of the order in the quote message contains the same order information as the RFQ.

FIGURE 8B illustrates one exemplary Web page of a vendor quote that is displayed to the buyer. As shown in FIGURE 8B, the vendor quote includes the vendor's price 813, the lumber species and grade 803, number of pieces per unit 804, quantities of the various units comprising the preferred assortment in the tally 805A-E, delivery method 806, delivery date 807, and delivery location 808. In the quote response message, the vendor has the capability to modify any of the information that was submitted in the RFQ. For example, the vendor may edit the quantity values for the various units comprising the preferred assortment in the tally 805A-E. This allows the vendor to adjust the buyer's request according to the vendor's inventory, best means of transportation, etc. All of the vendor's quote information is referred to as price data set or the RFQ Line Item (tally) quote.

Returning to FIGURE 6A, the process continues to a step 605, where the server 230 normalizes the price of each RFQ Line Item (tally) quote from each vendor. The normalization of the vendor's price is a computation that adjusts the vendor's price utilizing data from a metric. The normalization process is carried out because each vendor may respond to the Line Items of an RFQ by quoting products that are different from buyer's RFQ and/or have a different tally configuration. The normalization of the pricing allows the buyers to objectively compare the relative value of the different products offered by the plurality of vendors. For example, one vendor may produce a quote for an RFQ of: one unit of 2x4x12, two units of 2x4x12, and three units of 2x4x16. At the same time, another vendor may submit a quote for three units of 2x4x12, one unit of 2x4x12, and two units of 2x4x16. Even though there is some difference between these two offerings, the price normalization process provides a means for the buyer to effectively compare and evaluate the different quotes even though there are variations in the products. The price normalization process 900 is described in more detail below in conjunction with the flow diagram of FIGURE 9.

Returning again to FIGURE 6A, at a step 607 the vendor's quote information is communicated to the buyer's computer for display. As shown in FIGURE 8B and described in detail above, the vendor's quote is displayed via a Web page that communicates the vendor's quote price 813 and other purchase information. In addition, the vendor's quote page contains a metric price 815 and a quote price vs. metric price ratio 816. The metric price 815 and the quote price vs. metric price ratio 816 are also referred to as a normalized price data value.

Next, at a step 609, the buyer or the administrator of the buyer pool, compares the various products and prices quoted by the vendors along with the normalized price for each Line Item on the RFQ. In this part of the process, the buyer may decide to purchase one of the products from a particular vendor and sends a notification to the selected vendor indicating the same. The buyer notifies the selected vendor by the use of an electronic means via the server 230, such as an HTML form, a chat window, email, etc. For example, the quote Web page depicted in FIGURE 8B shows two different quotes with two different tallies, the first quote price 813 of \$360, and the second quote price 813A of \$320. If the buyer determines that they prefer to purchase the materials listed in the first quote, the buyer selects the "Buy!" hyperlink 820 or 820A associated with the desired tally.

If the buyer is not satisfied with any of the listed vendor quotes, the server 230 allows the buyer to further negotiate with one or more of the vendors to obtain a new quote. This step is shown in decision block 611, where the buyer makes the determination to either accept a quoted price or proceed to a step 613 where they negotiate with the vendor to obtain another quote or present a counter offer. Here, the server 230 provides a graphical user interface configured to allow the buyer and one vendor to electronically communicate, such as a chat window, streaming voice communications or other standard methods of communication. There are many forms of electronic communications known in the art that can be used to allow the buyer and vendors to communicate.

The buyer and seller negotiate various quotes and iterate through several steps 603-613 directed by the server 230, where each quote is normalized, compared and further negotiated until quote is accepted by the buyer or negotiations cease. While the buyer and seller negotiate the various quotes, the server 230 stores each quote until the two parties agree on a price. At any step during the negotiation process, the system always presents the buyer with an option to terminate the negotiation if dissatisfied with the quote(s).

At decision block 611, when a buyer agrees on a quoted price, the process then continues to a step 615 where the buyer sends a notification message to the vendor indicating they have accepted a quote. As described above with reference to steps 603-613, the buyer notification message of step 615 may be in the form of a message on a chat window, email, by an HTML form, or the like. However, the buyer notification must be transmitted in a format that allows the system to record the transaction. The buyer notification may include all of the information regarding

the specifications by RFQ Line Item, such as, but not limited to, the buy price, date and method of shipment, and payment terms.

The purchase-negotiation process 600 is then finalized when the system, as shown in a step 617, sends a confirmation message to a tracking system. The
5 confirmation message includes all of the information related to the agreed sales transaction.

Optionally, the process includes a step 619, where the server 230 stores all of the information related to RFQ, offers, and the final sales transaction in a historical database. This would allow the server 230 to use all of the transaction information in
10 an analysis process for providing an improved method of obtaining a lower market price in future transactions and in identifying optimum purchasing strategy. The analysis process is described in further detail below. Although the illustrated embodiment is configured to store the data related to the sales transactions, the system can also be configured to store all of the iterative quote information
15 exchanged between the buyer and vendor.

Referring now to FIGURE 6B, an embodiment of the unsolicited offer process 650 is disclosed. In summary, the unsolicited offer process 650, also referred to as the unsolicited market purchase process, allows at least one buyer to view unsolicited offers from a plurality of vendors and purchase items from a plurality of
20 vendors from the offers. The logic of FIGURE 6B provides buyers with a forum that automatically manages, collects and normalizes price quotes based on metric data. By the price normalization method of FIGURE 6B, the server 230 creates an integrated forum where offers from a plurality of inherently dissimilar products can be obtained and normalized for determination of purchase.

The unsolicited offer process 650 begins at a step 651 where the plurality of vendors are able to submit offers to the server 230. This part of the process is executed in manner similar to step 603 of FIGURE 6A, where the vendor submits a quote to the server 230. However, in the Web page of step 651, the server 230
25 generates a Web page containing several tallies from many different vendors. In addition, at step 651, the server 230 stores all of the unsolicited offer data provided by the vendors.
30

Next, at a step 653, a buyer views the offers stored on the server 230. This part of the process is carried out in a manner similar to the process of step 603 or 607 where the server 230 displays a plurality of offers similar to the tallies depicted in
35 FIGURE 8A.

Next, at a step 655, the buyer selects a metric for the calculation of the normalized price associated with the selected offer. As described in more detail below, metrics may come from publicly available information, i.e., price of futures contracts traded on the Chicago Mercantile Exchange, subscription services such as Crowes™ or Random Lengths™, or internally generated metrics derived from the data stored in the server 230. The normalization calculation, otherwise referred to as the normalization process, occurs each time the buyer views a different offer, and the normalization calculation uses the most current metric data for each calculation. The normalization process is carried out because each vendor will most likely offer products that may vary from products of other vendors, and have a different tally configuration from those supplied by other vendors. The normalization of the pricing allows the buyers to compare the relative value of the different products offered by the number of vendors. The metric price for each selected offer is displayed in a similar manner as the metric price 815 and 816 shown in the Web page of FIGURE 8B.

Next, at decision block 657, the buyer selects at least one offer for purchase. This is similar to the process of FIGURE 6A in that the buyer selects the "Buy!" hyperlink 820 associated with the desired tally to purchase an order. The process then continues to steps 659-663, where at step 659 the process transmits a buy notice to the vendor, then at step 661 sends a purchase confirmation to the tracking system, and then at step 663 saves the transaction data in the server database. The steps 659-663 are carried out in the same manner as the steps 615-619 of FIGURE 6A. In the above-described process, the buyer notification may include all of the information regarding the specifications by RFQ Line Item, and data such as, but not limited to, the buy price, date and method of shipment, and the payment terms.

Referring now to FIGURE 7, a flow diagram illustrating yet another embodiment of the present invention is shown. FIGURE 7 illustrates the catalog purchase process 700. This embodiment allows buyers to search for a catalog price of desired commerce items, enter their purchase data based on the pre-negotiated catalog prices, and to compare those catalog prices with a selected metric price and the current market price, wherein the current market price is determined by the purchase-negotiation process 600.

The process starts at a step 701 where the buyer selects a program catalog. The program catalog provides buyers with the published or pre-negotiated price of the desired products. Next, at a step 703, based on the catalog information, the buyer

then enters their purchase data. Similar to the step 501 of FIGURE 5 and the tally shown in FIGURE 8A, the buyer sends purchase data to the server 230, such as the desired quantity of each item and the lumber species, grade, etc.

5 The process then proceeds to decision block 707 where the buyer makes a determination of whether to purchase the items using the catalog price, or purchase the desired product in the open market. Here, the server 230 allows the user to make this determination by displaying the metric price of each catalog price. This format is similar to the metric price 815 and 816 displayed in FIGURE 8B.

10 At decision block 707, if the buyer determines that the catalog price is better than a selected metric price, the process then proceeds to steps 709, 711, and 713, where a program buy from the catalog is executed, and the buyer's purchase information is stored on the server 230 and sent to the vendor's system to confirm the sale. These steps 711-713 are carried out in the same manner as the confirmation and save steps 617 and 619 as shown in FIGURE 6A.

15 At decision block 707, if the buyer determines that the metric price is better than the catalog price, the process continues to a step 717 where the buyers purchase data is entered into an RFQ. At this step, the process carries out the first five steps 601-609 of the method of FIGURE 6A to provide buyers with the price data from the open market, as well as provide the normalized prices for each open market
20 quote. At a step 719, the server 230 then displays a web page that allows the user to select from a purchase option of a catalog or spot (market) purchase. At decision block 721, based on the displayed information, the buyer will then have an opportunity to make a determination of whether they will proceed with a catalog purchase or an open market purchase.

25 At decision block 721, if the buyer proceeds with the catalog purchase, the process continues to step 709 where the catalog purchase is executed. The steps 709-713 used to carry out the catalog purchase are the same as if the buyer had selected the catalog purchase in step 707. However, if at decision block 721 the buyer selects the option to proceed with the market purchase, the process continues to a step 723
30 where the RFQ generated in step 717 is sent to the vendor. Here, the process carries out the steps of FIGURE 6 to complete the open market purchase. More specifically, the process continues to step 609 where the buyer compares the normalized prices from each vendor. Once a vendor is selected, the negotiation process of steps 603-613 is carried out until the buyer decides to execute the purchase. Next, the

transaction steps 615-619 are carried out to confirm the purchase, notify the tracking system, and save the transactional data on the historical database.

Optionally, the process can include a step where the server 230 stores all of the information related to program buy and metric comparisons, and the final sales transaction in a historical database. This would allow the server 230 to use all of the transaction information in an analysis process for providing an improved method of obtaining the value of the program. Although the illustrated embodiment is configured to store the data related to the sales transactions, the system can also be configured to store all of the iterative quote information exchanged between the buyer and vendor.

The analysis process allows the server 230 to utilize the sales history records stored in steps 619 and 711 to generate price reports for various third parties as well as provide a means of calculating current market prices for products sold in the above-described methods. The sales history records are also used as the source for a metric such as those used in the process of FIGURES 6A, 6B, and 7. As shown in steps 619, 663, and 711, the server 230 continually updates the historical database for each sales transaction. The analysis reporting process allows a buyer or manager of buyers to conduct analysis on the historical information. This analysis would include multi-value cross compilation, for purposes of determining purchasing strategies, buyer effectiveness, program performance, vendor performance, and measuring effectiveness of forward pricing as a risk management strategy.

Referring now to FIGURE 9, a flow diagram illustrating the logic of the normalization process 900 is shown. The logic of the normalization process 900 resides on the server 230 and processes the quotes received from commodity sellers. The logic begins in at a step 905 where quote data is obtained from the seller in response to the buyer's RFQ as described above.

Next, at a step 910, routine 900 iteratively calculates the board footage (BF) of each type of lumber. Once all the totals are calculated for each type, routine 900 continues to a step 915 where the server 230 calculates the total type price.

At step 915, routine 900 iteratively calculates the total type price for the amount of each type of lumber specified in the quote. This is accomplished by taking the total board footage (BF), calculated in block 910 and multiplying the total BF by the price per MBF specified in the quote. Once all the prices are calculated for each type, routine 900 continues to a step 920 where the server 230 calculates total quoted

price. At step 920 the routine 900 calculates the total price for the quote by summing all the total type prices calculated at step 915.

At a step 925, routine 900 iteratively retrieves the most current price for each type of lumber specified in the quote from a predefined metric source(s). Metrics may come from publicly available information, i.e. price of futures contracts traded on the Chicago Mercantile Exchange, subscription service publications such as Crowes™ or Random Lengths™, or internally generated metrics derived from the server database. Once all the prices are retrieved for each type, at a step 930 the routine 900 then iteratively calculates the market price for the quantity of each type of lumber in quote. Once the totals for all types are calculated, routine 900 continues to a step 935 where the routine 900 calculates the total market price for the quote by summing all the most current prices calculated in step 930. Although this example illustrates that steps 910-920 are executed before steps 925-935, these two groups of steps can be executed in any order, or in parallel, so long as they are both executed before a comparison step 940.

At step 940, routine 900 compares the total quoted to the metric price to arrive at a comparative value. In one exemplary embodiment of the current invention the comparative value is a "percent of metric" value. A value higher than one (1) percent indicates a price that is above the metric rate, and a lower percent indicates a price that is below the metric rate.

The operation of the routine 900 can be further illustrated through an example utilizing specific exemplary data. In the example, a buyer sends out a request for quote (RFQ) requesting a lot of lumber consisting of five units of 2"x4"x8', two units of 2"x4"x14' and five units of 2"x4"x16'. The buyer then receives quotes from tree sellers. Seller A responds with a tally of six units of 2"x4"x8', four units of 2"x4"x14' and three units of 2"x4"x16' for \$287 per thousand board feet. Seller B responds with a lot of five units of 2"x4"x8', one unit of 2"x4"x14' and six units of 2"x4"x16' for \$283 per thousand board feet. Seller C responds with a lot of one unit of 2"x4"x8', five units of 2"x4"x14' and five units of 2"x4"x16' for \$282 per thousand board feet. Suppose also that the market price for 2"x4"x8's is \$287.50, for 2"x4"x14's it is \$278.50 and for 2"x4"x16' it is \$288.

Viewing the MBF prices for the respective quotes is not particularly informative, given that certain lengths of lumber are more desirable and priced accordingly in the marketplace. By processing the quote from Seller A using routine 900, we arrive at a total MBF of 152, giving a total quoted price of \$43,624. The

selected metric price for the same types and quantity of lumber would be \$43,220; therefore the quoted price would have a percent of market value of 100.93%. Processing the quote from Seller B using routine 900, we arrive at a total MBF of 150 giving a total quoted price of \$42,450. The selected metric price for the same types and quantity of lumber however would be \$43,047, therefore the quoted price would have a percent of market value of 98.61%. Finally, processing the quote from Seller C using routine 900, we arrive at a total MBF of 158 giving a total quoted price of \$44,556. The selected metric price for the same types and quantity of lumber however would be \$44,835 therefore the quoted price would have a percent of market value of 99.38%. By looking at the percent of selected metric value it is apparent that the price from Seller B is a better value. As shown in the methods of FIGURES 5-7, this price normalization process allows users to compare inherently different offers having different quality and quantities values.

In yet another example of an application of the normalization process, additional exemplary data is used to demonstrate the analysis of a transaction having one RFQ from a buyer and two different quotes from a seller, normalized to comparable product of another specie. In this example, the buyer produces an RFQ listing the following items: one carload of Eastern SPF (ESPF) lumber having four units of 2"x4"x8', four units of 2"x4"x10', six units of 2"x4"x12', two units of 2"x4"x14', and six units of 2"x4"x16'. The vendor then responds with two different quotes with two different unit tallies and two different prices. The first response lists a quote price of \$320 per thousand board feet and a slight modification of the tally provides four units of 2"x4"x8', four units of 2"x4"x10', six units of 2"x4"x12', three units of 2"x4"x14', and five units of 2"x4"x16'. The second response quotes per the requested tally at a price of \$322 per thousand board feet. Both quotes list the delivery location as "Chicago."

To display the quotes, the server 230 produces a Web page similar to that displayed in FIGURE 8C, where the vendor's modified tally is displayed in highlighted text. The buyer can then view summary metric comparison or select the hypertext link "View Calculation Detail," which then invokes the server 230 to produce a Web page as shown in FIGURE 8D. Referring now to the Web page illustrated in FIGURE 8D, the data produced by the server 230 compares the response to a selected metric of a different specie, Western SPF (WSPF), for items of same size, grade, and tally. The market price for same 2x4 tally of ESPF and WSPF are thus simultaneously compared. In an example Eastern quoted at \$322 per

thousand board feet, Western metric (Random Lengths 6/26/2000 print price plus freight of \$80 as defined in Metric Manager) for same tally being \$331.791. This metric comparison is also represented as Quote/Metric Value or Eastern price representing .970490 or 97% of comparable Western product.

- 5 In review of the normalization process, the buyer must select a metric source for price information for a defined item given a set of attributes, i.e., grade, species, and size. The metric may then be mapped to the RFQ item for comparison and does not have to be equivalent of item. For instance, as explained in the above-described example, it may be desirable to map the market relationship of one commodity item
- 10 to another. The most current pricing data for the metric is electronically moved from the selected source to the server 230. As mentioned above, metrics may come from publicly available information, (i.e., price of Futures contracts traded on the Chicago Mercantile Exchange), or subscription services, (i.e., Crowes™ or Random Lengths™ Publications), or be an internal metric generated by the server 230. This
- 15 metric data is used in the normalization process for all calculations, as described with reference to the above-described methods.

- While the preferred embodiment of the invention has been illustrated and described, it will be appreciated that within the scope of the appended claims, various changes can be made therein without departing from the spirit of the invention. For
- 20 example, in an agricultural commodity, an order for Wheat U.S. #2 HRW could be compared to a selected metric of Wheat U.S. #2 Soft White, similar to how different species are analyzed in the above-described example.

- The above system and method can be used to purchase other commodity items such as in the trade of livestock. In such a variation, order information such as
- 25 a lumber tally would be substituted for a meat type, grade, and cut. Other examples of commodity items include agricultural products, metals, or any other items of commerce having several order parameters.

The embodiments of the invention in which an exclusive property or privilege is claimed are defined as follows:

1. In an arrangement comprising a plurality of agents connected to a network, said plurality of agents including at least one server, at least one buyer agent and at least one seller agent, a method for calculating commodities exchange price data, comprising:

receiving at least one request for quote from said buyer agent, wherein said request for quote includes a product specification data set;
transmitting the product specification data set to at least one seller agent;
receiving a price data set from said seller agent, wherein information in said price data set is responsive to the product specification data set; and
normalizing said price data set, thereby creating a normalized price data value.

2. The method of Claim 1, further comprising, exposing the normalized price data set to said buyer agent.

3. The method of Claim 1, further comprising, providing a browsable display describing at least one commodities exchange service and features for allowing a buyer agent to provide a request for quote.

4. The method of Claim 1, wherein the product specification data set includes a delivery date set at a future time.

5. The method of Claim 1, further comprising:
receiving a buy notice from said buyer agent; and
transmitting a purchase order to at least one said seller agent.

6. The method of Claim 1, further comprising:
receiving a plurality of product specification data sets from at least two buyer agents; and
combining said plurality of product specification data sets, thereby creating one request for quote.

7. The method of Claim 1, wherein said product specification data set includes information related to a buyer, a grade, a quantity, a tally, a method of shipment, and a ship date.

8. The method of Claim 1, wherein the product specification data set comprises a plurality of quantity values for a number of like commodity items having different size parameters, a description of at least one commodity item, and a description of a delivery method.

9. The method of Claim 1, wherein said price data set includes information to identify a seller, a quote price, shipment, and payment terms.

10. The method of Claim 8, wherein said price data set further includes an adjusted price, an adjusted quantity.

11. The method of Claim 1, further comprising, receiving an additional price data set from the seller agent, wherein the additional price data is a result from a renegotiated price.

12. The method of Claim 1, further comprising, storing the normalized price data set in a database communicatively connected to the server.

13. The method of Claim 1, wherein the normalizing step comprises, applying a metric transform to said price data set to create a normalized price data value.

14. The method of Claim 1, wherein product specification data set comprises a plurality of quantity values for a number of similar commodity items having different size parameters, wherein the normalizing step comprises:

calculating a size total value based a summation of said commodity size parameters;

retrieving a price total from one of said price data sets;

retrieving a metric price data set, wherein said metric price data set comprises a comparable price per unit of one of said commodity items;

multiplying said price per unit by said calculated size total value, thereby creating an adjusted market price total; and

comparing said adjusted market price total by said price total, thereby creating a normalized price data set.

15. The method of Claim 13, wherein comparing said adjusted market price total by said price total, includes determining a ratio by dividing said price total by said adjusted market price total, thereby creating the normalized price data value.

16. The method of Claim 1, wherein product specification data set comprises a plurality of quantity values for a number of commodity items having different size parameters and type parameters, wherein the normalizing step comprises:

for each type of commodity item, calculating a size total value based a summation of said commodity size parameters;

for each type of commodity item, retrieving a price total from one of said price data sets;

summing said price total from each type of commodity item, thereby creating a total type price;

for each type of commodity item, retrieving a metric price data set, wherein said market price data set comprises a comparable price per unit of one of said commodity items;

for each type of commodity item, multiplying said price per unit by said size total value, thereby creating an market price total for each type of commodity item;

calculating a summed market price total from the summation of said market price total of each type of commodity item; and

comparing said summed market price total by said total type price, thereby creating the normalized price data value.

17. The method of Claim 15, wherein comparing said summed market price total by said total type price, includes determining a ratio by dividing said total type price by said summed market price total, thereby creating the normalized price data value.

18. In an arrangement comprising a plurality of computers connected to a network, said plurality of computers including at least one server, at least one buyer client computer, and a plurality of seller client computers, a method for providing commodities exchange services, comprising:

providing a browsable display describing at least one commodities exchange service and features for allowing a buyer associated with said buyer client computer to provide a request for quote;

receiving at least one request for quote from said buyer client computer, wherein said request for quote includes a product specification data set;

transmitting said product specification data set to at least one of said plurality of seller client computers;

receiving a plurality of price data sets from said plurality of seller client computers, wherein said plurality of price data sets are responsive to said product specification data set;

normalizing said plurality of price data sets, thereby creating a normalized price data value; and

transmitting said normalized price data set for depiction on said buyer client computer.

19. The method of Claim 17, further comprising:

receiving a buy notice from said buyer client computer; and

transmitting a purchase order to one of said seller computers of said plurality of seller client computers.

20. The method of Claim 17, further comprising:

receiving a plurality of product specification data sets from said plurality of buyer client computers; and

combining said plurality of product specification data sets, thereby creating one request for quote.

21. The method of Claim 17, wherein said product specification data set

includes information related to a buyer, said request for quote grade, quantity, tally, a method of shipment, and a ship date.

22. The method of Claim 17, wherein the product specification data set

comprises a plurality of quantity values for a number of like commodity items having different size parameters, a description of at least one commodity item, and a description of a delivery method.

23. The method of Claim 17, wherein said price data set includes

information to identify a seller, a quote price, shipment, and payment terms.

24. The method of Claim 22, wherein said price data set further includes an adjusted price, and an adjusted quantity.

25. The method of Claim 17, further comprising, receiving an additional price data set from the seller client computer, wherein the additional price data is a result from a renegotiated price.

26. The method of Claim 17, further comprising, storing the normalized price data set in a database communicatively connected to the server.

27. The method of Claim 17, wherein the normalizing step comprises, applying a metric transform to said price data set to create a normalized price data value.

28. The method of Claim 17, wherein product specification data set comprises a plurality of quantity values for a number of similar commodity items having different size parameters, wherein the normalizing step comprises:

calculating a size total value based a summation of said commodity size parameters;

retrieving a price total from one of said price data sets;

retrieving a metric price data set, wherein said metric price data set comprises a comparable price per unit of one of said commodity items;

multiplying said price per unit by said calculated size total value, thereby creating an adjusted market price total; and

comparing said adjusted market price total by said price total, thereby creating a normalized price data set.

29. The method of Claim 28, wherein comparing said adjusted market price total by said price total, includes determining a ratio by dividing said price total by said adjusted market price total, thereby creating the normalized price data value.

30. The method of Claim 17, wherein product specification data set comprises a plurality of quantity values for a number of commodity items having different size parameters and type parameters, wherein the normalizing step comprises:

for each type of commodity item, calculating a size total value based a summation of said commodity size parameters;

comparing said summed market price total by said total type price, thereby creating the normalized price data value.

31. The method of Claim 30, wherein comparing said summed market price total by said total type price, includes determining a ratio by dividing said total type price by said summed market price total, thereby creating the normalized price data value.

transmitting the normalized price data set for depiction on said buyer client computer.

33. The computer-readable medium of Claim 32, further comprising the computer-executable instructions of:

receiving a buy notice from said buyer client computer; and
transmitting a purchase order to one or more of said seller computers of said plurality of seller client computers.

34. The computer-readable medium of Claim 32, further comprising computer-executable instructions of:

receiving a plurality of product specification data sets from a plurality of buyer client computers; and

combining said plurality of product specification data sets, thereby creating one request for quote.

35. The computer-readable medium of Claim 32, further comprising computer-executable instruction of, receiving an additional price data set from the seller client computer, wherein the additional price data is a result from a renegotiated price.

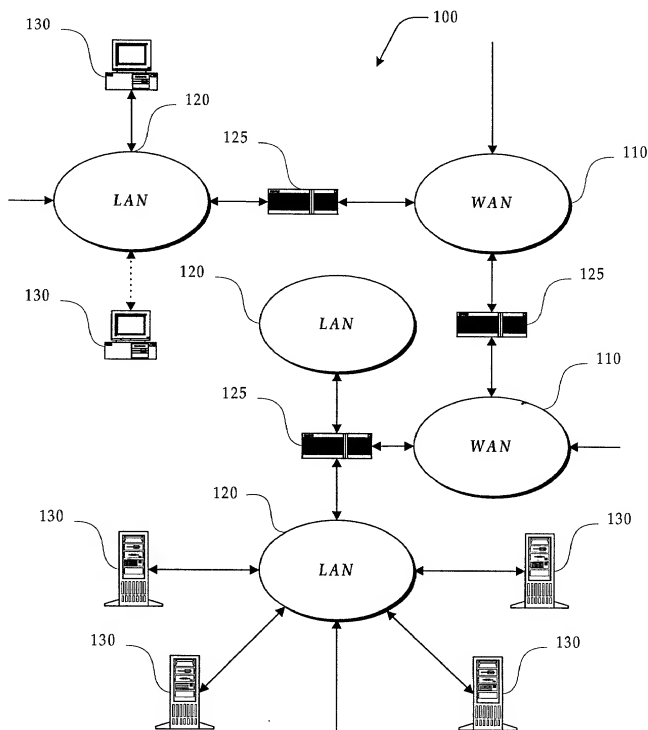
36. The computer-readable medium of Claim 32, further comprising computer-executable instruction of, storing the normalized price data set in a database communicatively connected to the server.

000000-20000000

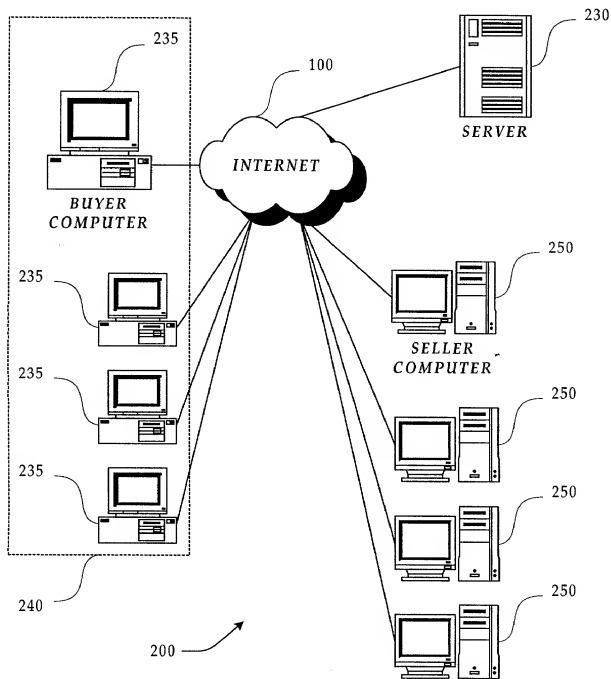
SYSTEM AND METHOD FOR MANAGING AND EVALUATING NETWORK COMMODITIES PURCHASING

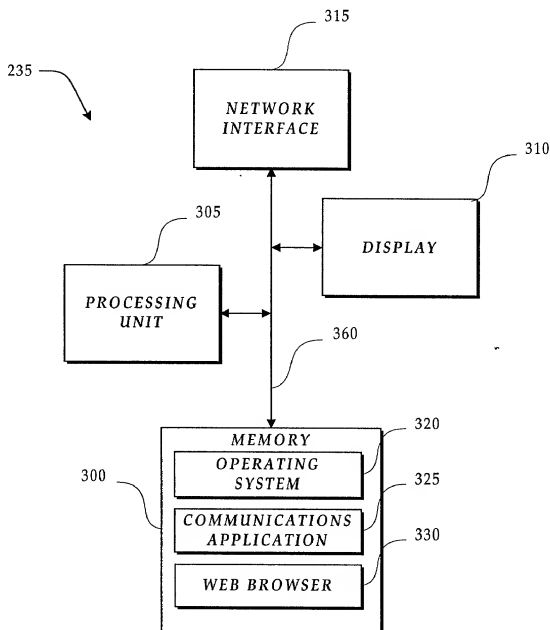
Abstract of the Disclosure

5 A method and system for managing and evaluating commodities purchasing over a network of distributed computing devices. In one embodiment, the method allows a plurality of buyers to generate one request for quote and, response to the request for quote, receive a quote from plurality of vendors. The system of the present invention provides a price normalization routine that allows buyers to evaluate and compare a normalized price for commodity products having different
10 evaluation parameters. In an arrangement comprising a plurality of computers connected to a network said plurality of computers including at least one server, at least one buyer client computer and a plurality of seller client computers, the method for providing commodities exchange services first provides a web-based browsable display describing at least one commodities exchange service. The system then
15 receives at least one request for quote from the buyer. The system then receives at least one quote from different sellers, wherein each quote may have a different price and quantity listed. The system then compares to one or more selected metrics and normalizes the prices received from the different quotes, thus, allowing the buyer to readily compare the prices of a number of commodity items having inherently
20 different values. In one embodiment, the system of the present invention also provides a method for multi-value cross compilation of sales transactions, iterative quote information, and metric data for purposes of evaluation and strategy analysis.

*Figure 1*

(Prior Art)

*Figure 2*

*Figure 3*

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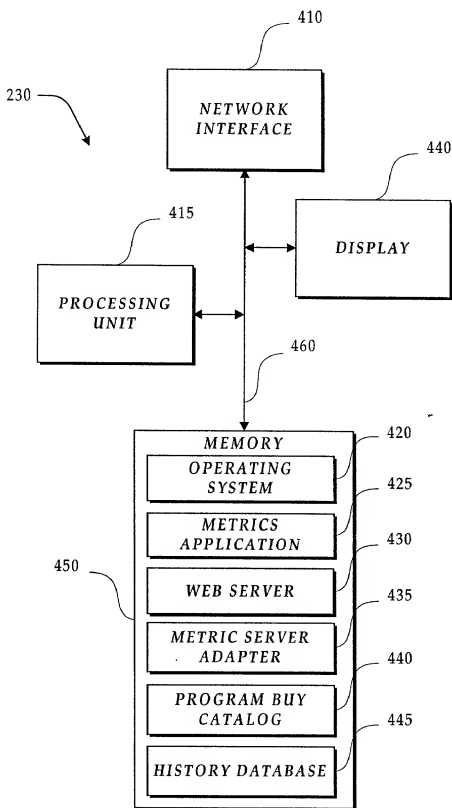


Figure 4

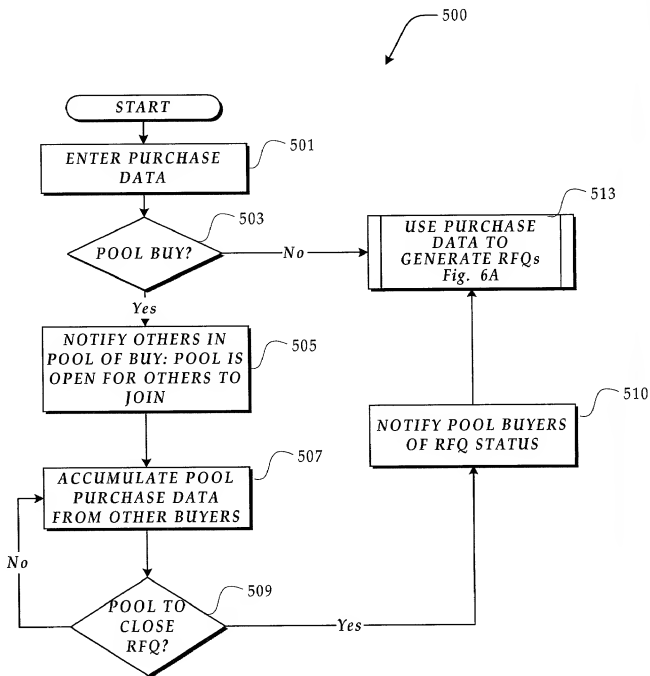


Figure 5

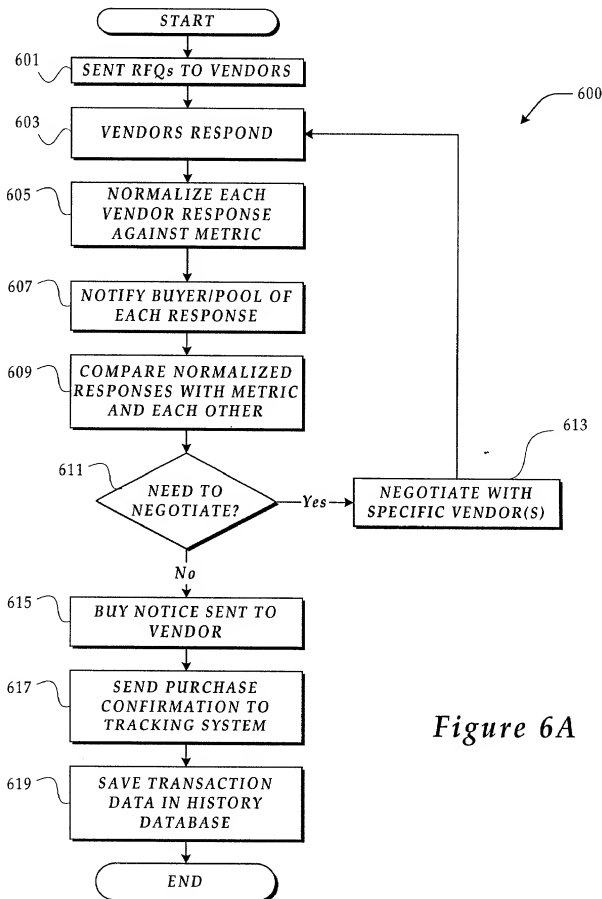
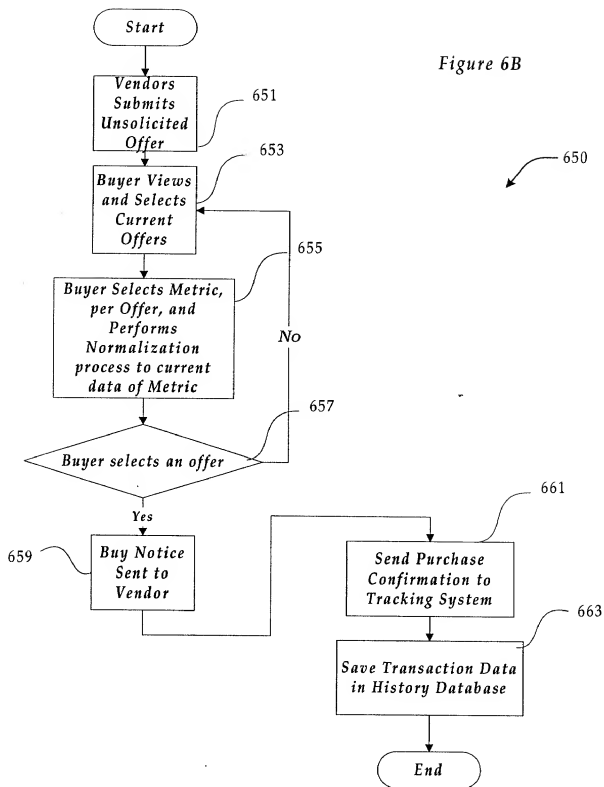


Figure 6A

Figure 6B



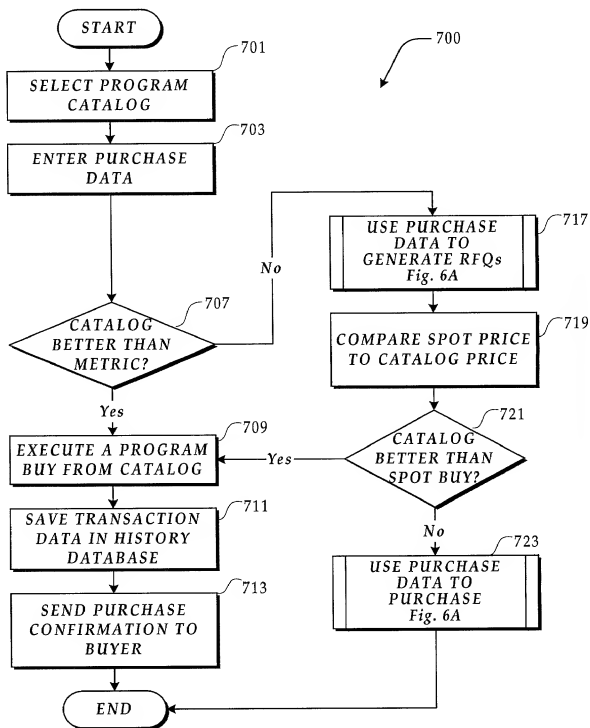


Figure 7

9/12

807

Softwoods RFQ

807

Spot-Buy Vendors

- Scott McEl - ABC Lumber
- Rab Hovda - GP
- Quincy Lumber
- Fast Broker
- Lumber Supplier

RFQ Posting Date: 6/19/2000

RFQ Label: 805A... ...805E

Calculated Values - M, W, F

Material	242.075
Material	57624
Material	294
Material	115248

806

809

Tally Information:

Delivered on or Before: For Delivery week of (FORWARD PRICE): 10/01/00 804

Qty	Delivery (T/L, Car...)	Lumber Type	8	10	12	14	16	18	20	Delivery Location:
1	Car50	2x4 SPF S&B	4	6	8	5	6			Chicago, Illinois

803

Other Tally:

Metric: 2x4 WSPF S&B Unit Size: 2x4

Notes: Forward price: Do not ship before 10/1/00. Do not invoice until shipment.

810

Add Additional Tally (Save) None Post Buyer Pool Post to Vendors

812 814

Figure 8A

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http://www.probuild.com/buymetrics/RFCSoftwareCompare.asp?Order=1&RFQID=58 - Microsoft Internet Explorer

Address: http://www.probuild.com/buymetrics/RFCSoftwareCompare.asp?Order=1&RFQID=58

Requested Tally(e):

Delivered on or Before: 7/1/00		For Delivery week of (FORWARD PRICE):	
1	Car50	2 x 4 SPF S&B	4 3 3 2 6
or		807	Kingston, Pennsylvania
		816	815
Tally Response Information:		803 805A.....805E	808 813

Lumber Supplier

Comparison: PCS/Unit: 234	Price/M:	Freight:	Quote \$ / Metric \$:	Metric \$ / M:	View Calculation	Buy!
	360		1.080174	333.2796	Detail	
Delivered on or Before: 7/1/00		For Delivery week of (FORWARD PRICE):				
1	Car50	2 x 4 SPF S&B	4 3 2	Kingston, Pennsylvania	360	m
or		net 10				

Lumber Supplier

Comparison: PCS/Unit: 234	Price/M:	Freight:	Quote \$ / Metric \$:	Metric \$ / M:	View Calculation	Buy!
	320		0.9270521	345.1802	Detail	
Delivered on or Before: 7/1/00		For Delivery week of (FORWARD PRICE):				
1	Car50	2 x 4 SPF S&B	4 3 3 2 6	Kingston, Pennsylvania	320	m
or		*New response old RFO net 10				

Figure 8B

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http://www.probuild.com/bsystems/RFQ/softwood/compare.asp?Index=1&ID=10102 Microsoft Internet Explorer

http://www.probuild.com/bsystems/RFQ/softwood/compare.asp?Index=1&ID=10102

Softwoods RFQ Summary

Requested Tabular:

Delivered on or Before: 09/10/00 For Delivery week of (FORWARD PRICE)

1	Car50	2x4 ESFP S&B	4	4	6	2	8	Chicago, Illinois	
or									

Tabular Response Information:

Lumber Supplier:

Compartments: PC08.mh.294 Pricemf 320 Freight Quote \$ / Metric \$: 0.9700025 Metric \$ / M: 329.6247 View Calculation Detail Deal

Delivered on or Before: 09/10/00 For Delivery week of (FORWARD PRICE)

1	Car50	2x4 ESFP S&B	4	4	6	2	8	Chicago, Illinois	320	m
or								mid 10		

Lumber Supplier:

Compartments: PC08.mh.294 Pricemf 322 Freight Quote \$ / Metric \$: 0.9704903 Metric \$ / M: 331.791 View Calculation Detail Deal

Delivered on or Before: 09/10/00 For Delivery week of (FORWARD PRICE)

1	Car50	2x4 ESFP S&B	4	4	6	2	8	Chicago, Illinois	322	m
or								mid 10		

Figure 8C

http://www.probuild.com/bsystems/softwood/oly.asp?MetricID=211&SummaryID=134&Action=FromSummary Microsoft Internet Explorer

http://www.probuild.com/bsystems/softwood/oly.asp?MetricID=211&SummaryID=134&Action=FromSummary

New Softwood RFQ
New Pallet RFQ
New Plywood RFQ

List Open Softwood RFQs
List Open Pallet RFQs

List Submitted Softwood RFQs
List Submitted Pallet RFQs
List Uninvolved Offers

List Closed Softwood RFQs
List Closed Pallet RFQs

Early Calculator Customer

Calculation:

PC08.mh.294 Pricemf 322 Freight Quote \$ / Metric \$: 0.9700025 Metric \$ / M: 329.6247

Weight	Car	Car50	Car100	Car200	Car400	Car800	Car1600	Car3200	Car6400	Car12800	Car25600	Car51200	Car102400	Car204800	Car409600	Car819200	Car1638400	Car3276800	Car6553600	Car13107200	Car26214400	Car52428800	Car104857600	Car209715200	Car419430400	Car838860800	Car1677721600	Car3355443200	Car6710886400	Car13421772800	Car26843545600	Car53687091200	Car107374182400	Car214748364800	Car429496729600	Car858993459200	Car1717986918400	Car3435973836800	Car6871947673600	Car13743895347200	Car27487790694400	Car54975581388800	Car109951162777600	Car219902325555200	Car439804651110400	Car879609302220800	Car1759218604441600	Car3518437208883200	Car7036874417766400	Car14073748835532800	Car28147497671065600	Car56294995342131200	Car112589990684262400	Car225179981368524800	Car450359962737049600	Car900719925474099200	Car1801439850948198400	Car3602879701896396800	Car7205759403792793600	Car14411518807585587200	Car28823037615171174400	Car57646075230342348800	Car115292150460684697600	Car230584300921369395200	Car461168601842738790400	Car922337203685477580800	Car1844674407370955161600	Car3689348814741910323200	Car7378697629483820646400	Car14757395258967641292800	Car29514790517935282585600	Car59029581035870565171200	Car118059162071741130342400	Car236118324143482260684800	Car472236648286964521369600	Car944473296573929042739200	Car1888946593147858085478400	Car3777893186295716170956800	Car7555786372591432341913600	Car15111572745182864683827200	Car30223145490365729367654400	Car60446290980731458735308800	Car120892581961462917470617600	Car241785163922925834941235200	Car483570327845851669882470400	Car967140655691703339764940800	Car1934281311383406679529881600	Car3868562622766813359059763200	Car7737125245533626718119526400	Car15474250491067253436239052800	Car30948500982134506872478105600	Car61897001964269013744956211200	Car123794003928538027489912422400	Car247588007857076054979824844800	Car495176015714152109959649689600	Car990352031428304219919299379200	Car1980704062856608439838598758400	Car3961408125713216879677197516800	Car7922816251426433759354395033600	Car15845632502852867518708790067200	Car31691265005705735037417580134400	Car63382530011411470074835160268800	Car126765060022822940149670320537600	Car253530120045645880299340641075200	Car507060240091291760598681282150400	Car1014120480182583521197362564300800	Car2028240960365167042394725128601600	Car4056481920730334084789450257203200	Car8112963841460668169578900514406400	Car16225927682921336339157801028812800	Car32451855365842672678315602057625600	Car64903710731685345356631204115251200	Car129807421463370690713262408230502400	Car259614842926741381426524816461004800	Car519229685853482762853049632922009600	Car103845937170696552570609926584409600	Car207691874341393105141219853168819200	Car415383748682786210282439706337638400	Car830767497362772420564879412675276800	Car1661534994725544841129758825350553600	Car3323069989451089682259517650701107200	Car6646139978902179364519035301402214400	Car13292279957804358729038070602804428800	Car26584559915608717458076141205608857600	Car53169119831217434916152282411217715200	Car106338239662434869832304564822435430400	Car212676479324869739664609129644870860800	Car425352958649739479329218259289741721600	Car850705917299478958658436518579483443200	Car1701411834598957917316873037158966886400	Car3402823669197915834633746074317933772800	Car6805647338395831669267492148635867545600	Car13611294676791663338534984297271735091200	Car27222589353583326677069968594543470182400	Car54445178707166653354139937189086940364800	Car108890357414333306708279874378173880729600	Car217780714828666613416559748756347761459200	Car435561429657333226833119497512695522918400	Car871122859314666453666238995025391045836800	Car1742245718629332907332477990050782091673600	Car3484491437258665814664955980101564183347200	Car6968982874517331629329911960203128366694400	Car13937965749034663258659823920406256733388800	Car27875931498069326517319647840812513466777600	Car55751862996138653034639295681625026933555200	Car111503725992277306069278591363250053867110400	Car223007451984554612138557182726500107734220800	Car446014903969109224277114365453000215468441600	Car892029807938218448554228730906000430936883200	Car1784059615876436897108457461812000861873766400	Car356811923175287379421691492362400172374752800	Car713623846350574758843382984724800344749505600	Car1427247692701149517686765969449606899499011200	Car2854495385402299035373531938899213798998022400	Car5708990770804598070747063877798427597996044800	Car11417981541609196141494127755596855195992089600	Car22835963083218392282988255511193710391984179200	Car45671926166436784565976511022387420783968358400	Car91343852332873569131953022044774841567936716800	Car182687704665747138263906044089549683135873433600	Car365375409331494276527812088179099366271746867200	Car730750818662988553055624176358198732543493734400	Car1461501637325977106111248352716397465086987468800	Car2923003274651954212222496705432794930173974937600	Car5846006549303908424444993410865589860347949875200	Car1169201309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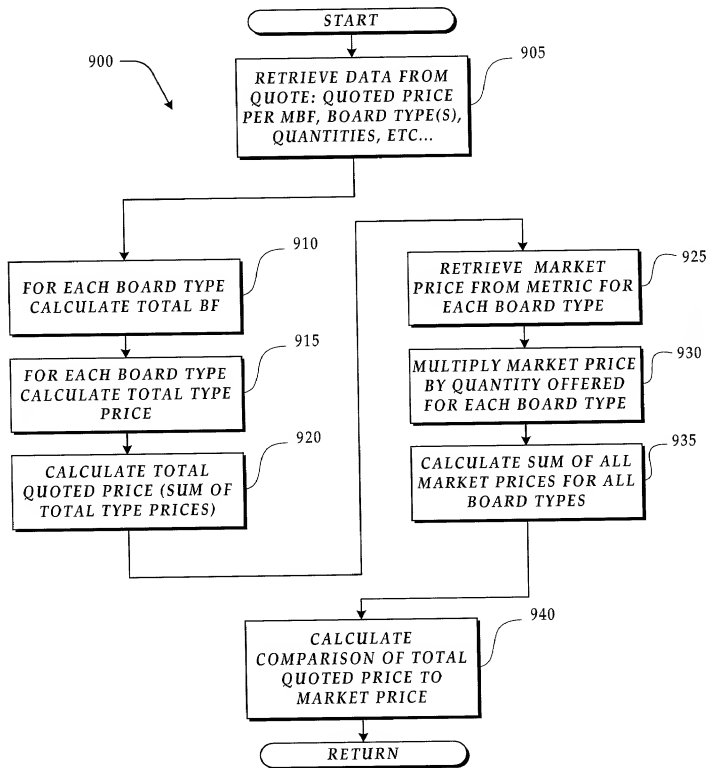


Figure 9